

Section 462

Correct all exposed surfaces that are not satisfactory to the Engineer as to uniformity of color and texture or because of excessive patching as required. Give the roadway face of barrier rails constructed using conventional forms a Class 2 surface finish in accordance with Subarticle 420-17(F). Use a broom finish on the roadway face of slip-formed barrier rails.

Provide barrier rail delineators in accordance with Section 854.

460-4 MEASUREMENT AND PAYMENT

____ *Bar Metal Rail* will be measured and paid as the actual number of linear feet of metal rail, measured along the top bar of the rail, that is completed and accepted.

____" *Galvanized Steel Pipe Rail* will be measured and paid as the actual number of linear feet of pipe rail, measured along the top pipe of the installed pipe rail, that is completed and accepted.

Concrete Barrier Rail will be measured and paid as the number of linear feet of concrete barrier rail provided in the plans.

Vertical Concrete Barrier Rail will be measured and paid as the number of linear feet of vertical concrete barrier rail provided in the plans.

Concrete Median Barrier will be measured and paid as the number of linear feet provided in the plans.

____ x ____ *Concrete Parapet* will be measured and paid as the number of linear feet of concrete parapet provided in the plans.

There will be no direct payment for bridge rail delineators as they are incidental to the work being performed.

These prices and payments will be full compensation for all items required to provide bridge railing including, but not limited to, those items contained in Article 460-1.

Payment will be made under:

Pay Item

____ Bar Metal Rail
____" Galvanized Steel Pipe Rail
Concrete Barrier Rail
Vertical Concrete Barrier Rail
Concrete Median Barrier
____ x ____ Concrete Parapet

Pay Unit

Linear Foot
Linear Foot
Linear Foot
Linear Foot
Linear Foot
Linear Foot

SECTION 462 SLOPE PROTECTION

462-1 DESCRIPTION

Construct slope protection under the ends of bridges or at other locations in accordance with details shown in the contract. Excavate and backfill, furnish and place concrete, reinforcement and other materials. Unless otherwise noted in the plans, use cast-in-place reinforced concrete.

462-2 MATERIALS

Refer to Division 10.

Item

Curing Agents
Joint Fillers
Portland Cement Concrete

Section

1026
1028-1
1000

Item
Wire Reinforcement

Section
1070-3

1 **462-3 CONSTRUCTION METHODS**

2 Immediately before placing the paving, properly shape and firmly compact the slope so it
3 conforms to the required lines and grades.

4 Construct cast-in-place concrete slope protection in accordance with Section 420, except as
5 otherwise provided herein. Use Class B concrete. Furnish and place reinforcement as shown
6 in the plans and in accordance with Section 425. After placing the concrete for one section,
7 strike it off to plan grade and finish to a dense and uniform surface.

8 Provide a reasonably smooth and uniform surface for the finished slope protection that does
9 not vary more than 1/2" in a distance of 10 ft.

10 Do not place backfill adjacent to cast-in-place slope protection at any one end bent until each
11 individual section of paving at the end bent cures for 3 or more curing days in accordance
12 with Subarticle 420-15(A). Place backfill no later than 5 calendar days after the last section
13 of concrete paving placed at the end bent cures for 3 curing days. Compact all backfill to
14 a degree comparable to the adjacent undisturbed material.

15 **462-4 MEASUREMENT AND PAYMENT**

16 ___" *Slope Protection* will be measured and paid as the actual number of square yards of slope
17 protection, measured along the top surface of the paving, which is completed and accepted.

18 The price and payment will be full compensation for all items required to provide slope
19 protection including, but not limited to, those items contained in Article 462-1.

20 Payment will be made under:

Pay Item
___" Slope Protection

Pay Unit
Square Yard